

Abstract:

Brake actuating Unit for Actuating a Motor Vehicle Brake System

The present invention relates to a brake actuating unit for actuating a motor vehicle brake system of the 'brake-by-wire' type comprising

- a) a brake booster which is operable in response to the driver's wish both by means of a brake pedal and by means of an electronic control unit, and a means is provided to decouple a force-transmitting connection between the brake pedal and the brake booster in the 'brake-by-wire' operating mode,
- b) a master brake cylinder connected downstream of the brake booster,
- c) a means to detect a deceleration request of the driver, and
- d) a pedal travel simulator which interacts with the brake pedal and due to which a resetting force acting on the brake pedal can be simulated in the 'brake-by-wire' operating mode independently of an actuation of the brake booster, and which can be enabled in the 'brake-by-wire' operating mode when the force-transmitting connection between the brake pedal and the brake booster is decoupled and can be disabled outside the 'brake-by-wire' operating mode.

According to the invention, the pedal travel simulator (2) is enabled and disabled by electromechanical means (22, 25), electrohydraulic means (40, 47) or pneumatically operable means (96 to 98). (Figure 1)